

0590
1119

OIPE

#3

RAW SEQUENCE LISTING DATE: 12/04/2001
 PATENT APPLICATION: US/09/888,370 TIME: 08:52:35

Input Set : N:\Crf3\RULE60\09888370.raw
 Output Set: N:\CRF3\12042001\I888370.raw

SEQUENCE LISTING

ENTERED

- 3 (1) GENERAL INFORMATION:
 - 5 (i) APPLICANT: Glimcher, Laurie H. et al.
 - 7 (ii) TITLE OF INVENTION: Human c-Maf Compositions and
Methods of Use Thereof
 - 10 (iii) NUMBER OF SEQUENCES: 2
 - 12 (iv) CORRESPONDENCE ADDRESS:
 - 13 (A) ADDRESSEE: LAHIVE & COCKFIELD, LLP
 - 14 (B) STREET: 28 State Street
 - 15 (C) CITY: Boston
 - 16 (D) STATE: Massachusetts
 - 17 (E) COUNTRY: USA
 - 18 (F) ZIP: 02109
 - 20 (v) COMPUTER READABLE FORM:
 - 21 (A) MEDIUM TYPE: Floppy disk
 - 22 (B) COMPUTER: IBM PC compatible
 - 23 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - 24 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
 - 26 (vi) CURRENT APPLICATION DATA:
 - C--> 27 (A) APPLICATION NUMBER: US/09/888,370
 - C--> 28 (B) FILING DATE: 22-Jun-2001
 - 29 (C) CLASSIFICATION:
 - 31 (vii) PRIOR APPLICATION DATA:
 - 32 (A) APPLICATION NUMBER: US/09/086,010
 - 33 (B) FILING DATE:
 - 34 (A) APPLICATION NUMBER: 09/030,579
 - 35 (B) FILING DATE: 2-FEB-1998
 - 37 (viii) ATTORNEY/AGENT INFORMATION:
 - 38 (A) NAME: Kara, Catherine J.
 - 39 (B) REGISTRATION NUMBER: 41,106
 - 40 (C) REFERENCE/DOCKET NUMBER: HUI-027CP
 - 42 (ix) TELECOMMUNICATION INFORMATION:
 - 43 (A) TELEPHONE: (617)227-7400
 - 44 (B) TELEFAX: (617)742-4214
 - 47 (2) INFORMATION FOR SEQ ID NO: 1:
 - 49 (i) SEQUENCE CHARACTERISTICS:
 - 50 (A) LENGTH: 1203 base pairs
 - 51 (B) TYPE: nucleic acid
 - 52 (C) STRANDEDNESS: single
 - 53 (D) TOPOLOGY: linear
 - 55 (ii) MOLECULE TYPE: cDNA
 - 58 (ix) FEATURE:
 - 59 (A) NAME/KEY: CDS
 - 60 (B) LOCATION: 1..1203
 - 63 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

65 ATG GCA TCA GAA CTG GCA ATG AGC AAC TCC GAC CTG CCC ACC AGT CCC
 66 Met Ala Ser Glu Leu Ala Met Ser Asn Ser Asp Leu Pro Thr Ser Pro

48

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/888,370

DATE: 12/04/2001
TIME: 08:52:35

Input Set : N:\Crf3\RULE60\09888370.raw
Output Set: N:\CRF3\12042001\I888370.raw

67	1	5	10	15													
69	CTG	GCC	ATG	GAA	TAT	GTT	AAT	GAC	TTC	GAT	CTG	ATG	AAG	TTT	GAA	GTG	96
70	Leu	Ala	Met	Glu	Tyr	Val	Asn	Asp	Phe	Asp	Leu	Met	Lys	Phe	Glu	Val	
71	20		25		30												
73	AAA	AAG	GAA	CCG	GTG	GAG	ACC	GAC	CGC	ATC	ATC	AGC	CAG	TGC	GGC	CGT	144
74	Lys	Lys	Glu	Pro	Val	Glu	Thr	Asp	Arg	Ile	Ile	Ser	Gln	Cys	Gly	Arg	
75	35		40		45												
77	CTC	ATC	GCC	GGG	GGC	TCG	CTG	TCC	TCC	ACC	CCC	ATG	AGC	ACG	CCC	TGC	192
78	Leu	Ile	Ala	Gly	Gly	Ser	Leu	Ser	Ser	Thr	Pro	Met	Ser	Thr	Pro	Cys	
79	50		55		60												
81	AGC	TCG	GTG	CCC	CCG	TCC	CCC	AGC	TTC	TCG	GCG	CCC	AGC	CCG	GGC	TCG	240
82	Ser	Ser	Val	Pro	Pro	Ser	Pro	Ser	Phe	Ser	Ala	Pro	Ser	Pro	Gly	Ser	
83	65		70		75		80										
85	CGA	GGC	GAA	CAG	AAG	GCG	CAC	CTG	GAA	GAC	TAC	TAC	TGG	ATG	ACC	GGC	288
86	Arg	Gly	Glu	Gln	Lys	Ala	His	Leu	Glu	Asp	Tyr	Tyr	Trp	Met	Thr	Gly	
87	85		90		95												
89	TAC	CCG	CAG	CAG	CTG	AAC	CCC	GAG	GCG	CTG	GGC	TTC	AGC	CCC	GAG	GAC	336
90	Tyr	Pro	Gln	Gln	Leu	Asn	Pro	Glu	Ala	Leu	Gly	Phe	Ser	Pro	Glu	Asp	
91	100		105		110												
93	GCG	GTC	GAG	GCG	CTC	ATC	AGC	AAC	AGC	CAC	CAG	CTC	CGG	GGC	GGC	TTC	384
94	Ala	Val	Glu	Ala	Leu	Ile	Ser	Asn	Ser	His	Gln	Leu	Arg	Gly	Gly	Phe	
95	115		120		125												
97	GAT	GGC	TAT	GCG	CGC	GGG	GCG	CAG	CAG	CTA	GCC	GCG	GCG	GCC	GGG	GCA	432
98	Asp	Gly	Tyr	Ala	Arg	Gly	Ala	Gln	Gln	Leu	Ala	Ala	Ala	Ala	Gly	Ala	
99	130		135		140												
101	GGT	GCC	GGC	GCC	TCC	TTG	GGC	GGC	AGC	GGC	GAG	GAG	ATG	GGC	CCC	GCC	480
102	Gly	Ala	Gly	Ala	Ser	Leu	Gly	Gly	Ser	Gly	Glu	Glu	Met	Gly	Pro	Ala	
103	145		150		155		160										
105	GCC	GCC	GTG	GTG	TCC	GCC	GTG	ATC	GCC	GCG	GCC	GCG	CAG	AGC	GGC	528	
106	Ala	Ala	Val	Val	Ser	Ala	Val	Ile	Ala	Ala	Ala	Ala	Gln	Ser	Gly		
107	165		170		175												
109	GCG	GGC	CCG	CAC	TAC	CAC	CAC	CAC	CAC	CAC	GCC	GCC	GGC	CAC	CAC	576	
110	Ala	Gly	Pro	His	Tyr	His	His	His	His	His	Ala	Ala	Gly	His	His		
111	180		185		190												
113	CAC	CAC	CCG	ACG	GCC	GGC	GCG	CCC	GGC	GCC	GCG	GGC	AGC	GCG	GCC	GCT	624
114	His	His	Pro	Thr	Ala	Gly	Ala	Pro	Gly	Ala	Ala	Gly	Ser	Ala	Ala	Ala	
115	195		200		205												
117	TCG	GCC	GGT	GGC	GCT	GGG	GGC	GCG	GGC	GGC	GGT	GGC	CCG	GCC	AGC	GTT	672
118	Ser	Ala	Gly	Gly	Ala	Gly	Gly	Ala	Gly	Gly	Gly	Gly	Pro	Ala	Ser	Val	
119	210		215		220												
121	GGG	GGC	GGA	GGC	GGC	GGG	GGC	GCG	720								
122	Gly	Ala	Ala														
123	225		230		235		240										
125	GGC	GCC	CTG	CAC	CCG	CAC	CAC	GCC	GCC	GGC	GGC	CTG	CAC	TTC	GAC	GAC	768
126	Gly	Ala	Leu	His	Pro	His	His	Ala	Ala	Gly	Gly	Leu	His	Phe	Asp	Asp	
127	245		250		255												
129	CGC	TTC	TCC	GAC	GAG	CAG	CTG	GTG	ACC	ATG	TCT	GTG	CGC	GAC	TGG	AAC	816
130	Arg	Phe	Ser	Asp	Glu	Gln	Leu	Val	Thr	Met	Ser	Val	Arg	Asp	Trp	Asn	
131	260		265		270												

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/888,370

DATE: 12/04/2001
TIME: 08:52:35

Input Set : N:\Crf3\RULE60\09888370.raw
Output Set: N:\CRF3\12042001\I888370.raw

133	CGG CAG CTG CGC GGG GTC AGC AAG GAG GAG GTG ATC CGG CTG AAG CAG	864
134	Arg Gln Leu Arg Gly Val Ser Lys Glu Glu Val Ile Arg Leu Lys Gln	
135	275 280 285	
137	AAG AGG CGG ACC CTG AAA AAC CGC GGC TAT GCC AAG TCC TGC CGC TTC	912
138	Lys Arg Arg Thr Leu Lys Asn Arg Gly Tyr Ala Lys Ser Cys Arg Phe	
139	290 295 300	
141	AAG AGG GTG CAG CAG AGA CAC GTC CTG GAG TCG GAG AAG AAC CAG CTG	960
142	Lys Arg Val Gln Gln Arg His Val Leu Glu Ser Glu Lys Asn Gln Leu	
143	305 310 315 320	
145	CTG CAG CAA GTC GAC CAC CTC AAG CAG GAG ATC TCC AGG CTG GTG CGC	1008
146	Leu Gln Gln Val Asp His Leu Lys Gln Glu Ile Ser Arg Leu Val Arg	
147	325 330 335	
149	GAG AGG GAC GCG TAC AAG GAG AAA TAC GAG AAG TTG GTG AGC AGC GGC	1056
150	Glu Arg Asp Ala Tyr Lys Glu Lys Tyr Glu Lys Leu Val Ser Ser Gly	
151	340 345 350	
153	TTC CGA GAA AAC GGC TCG AGC AGC AAC CCG TCC TCT CCC GAG TTT	1104
154	Phe Arg Glu Asn Gly Ser Ser Asp Asn Pro Ser Ser Pro Glu Phe	
155	355 360 365	
157	TTC ATA ACT GAG CCC ACT CGC AAG TTG GAG CCA TCA GTG GGA TAC GCC	1152
158	Phe Ile Thr Glu Pro Thr Arg Lys Leu Glu Pro Ser Val Gly Tyr Ala	
159	370 375 380	
161	ACA TTT TGG AAG CCC CAG CAT CGT GTA CTT ACC AGT GTG TTC ACA AAA	1200
162	Thr Phe Trp Lys Pro Gln His Arg Val Leu Thr Ser Val Phe Thr Lys	
163	385 390 395 400	
165	TGA	1203

170 (2) INFORMATION FOR SEQ ID NO: 2:

172 (i) SEQUENCE CHARACTERISTICS:
173 (A) LENGTH: 400 amino acids
174 (B) TYPE: amino acid
175 (D) TOPOLOGY: linear

177 (ii) MOLECULE TYPE: protein

179 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

181	Met Ala Ser Glu Leu Ala Met Ser Asn Ser Asp Leu Pro Thr Ser Pro	
182	1 5 10 15	
184	Leu Ala Met Glu Tyr Val Asn Asp Phe Asp Leu Met Lys Phe Glu Val	
185	20 25 30	
187	Lys Lys Glu Pro Val Glu Thr Asp Arg Ile Ile Ser Gln Cys Gly Arg	
188	35 40 45	
190	Leu Ile Ala Gly Gly Ser Leu Ser Ser Thr Pro Met Ser Thr Pro Cys	
191	50 55 60	
193	Ser Ser Val Pro Pro Ser Pro Ser Phe Ser Ala Pro Ser Pro Gly Ser	
194	65 70 75 80	
196	Arg Gly Glu Gln Lys Ala His Leu Glu Asp Tyr Tyr Trp Met Thr Gly	
197	85 90 95	
199	Tyr Pro Gln Gln Leu Asn Pro Glu Ala Leu Gly Phe Ser Pro Glu Asp	
200	100 105 110	
202	Ala Val Glu Ala Leu Ile Ser Asn Ser His Gln Leu Arg Gly Gly Phe	
203	115 120 125	
205	Asp Gly Tyr Ala Arg Gly Ala Gln Gln Leu Ala Ala Ala Gly Ala	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/888,370

DATE: 12/04/2001
TIME: 08:52:35

Input Set : N:\Crf3\RULE60\09888370.raw
Output Set: N:\CRF3\12042001\I888370.raw

206 130 135 140
208 Gly Ala Gly Ala Ser Leu Gly Gly Ser Gly Glu Glu Met Gly Pro Ala
209 145 150 155 160
211 Ala Ala Val Val Ser Ala Val Ile Ala Ala Ala Ala Gln Ser Gly
212 165 170 175
214 Ala Gly Pro His Tyr His His His His Ala Ala Gly His His
215 180 185 190
217 His His Pro Thr Ala Gly Ala Pro Gly Ala Ala Gly Ser Ala Ala Ala
218 195 200 205
220 Ser Ala Gly Gly Ala Gly Gly Ala Gly Gly Gly Pro Ala Ser Val
221 210 215 220
223 Gly Ala Ala
224 225 230 235 240
226 Gly Ala Leu His Pro His His Ala Ala Gly Gly Leu His Phe Asp Asp
227 245 250 255
229 Arg Phe Ser Asp Glu Gln Leu Val Thr Met Ser Val Arg Asp Trp Asn
230 260 265 270
232 Arg Gln Leu Arg Gly Val Ser Lys Glu Glu Val Ile Arg Leu Lys Gln
233 275 280 285
235 Lys Arg Arg Thr Leu Lys Asn Arg Gly Tyr Ala Lys Ser Cys Arg Phe
236 290 295 300
238 Lys Arg Val Gln Gln Arg His Val Leu Glu Ser Glu Lys Asn Gln Leu
239 305 310 315 320
241 Leu Gln Gln Val Asp His Leu Lys Gln Glu Ile Ser Arg Leu Val Arg
242 325 330 335
244 Glu Arg Asp Ala Tyr Lys Glu Lys Tyr Glu Lys Leu Val Ser Ser Gly
245 340 345 350
247 Phe Arg Glu Asn Gly Ser Ser Asp Asn Pro Ser Ser Pro Glu Phe
248 355 360 365
250 Phe Ile Thr Glu Pro Thr Arg Lys Leu Glu Pro Ser Val Gly Tyr Ala
251 370 375 380
253 Thr Phe Trp Lys Pro Gln His Arg Val Leu Thr Ser Val Phe Thr Lys
254 385 390 395 400

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/888,370

DATE: 12/04/2001
TIME: 08:52:36

Input Set : N:\Crf3\RULE60\09888370.raw
Output Set: N:\CRF3\12042001\I888370.raw

L:27 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:28 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]